

CLAIMS

1. A negative photosensitive composition comprising:

- (A) an infrared absorber,
5 (B) an organic boron compound which has a function as a polymerization initiator when used in combination with the infrared absorber (A),
(C) an onium salt, and
(D) a compound having a polymerizable
10 unsaturated group.

2. The negative photosensitive composition according to claim 1, wherein the infrared absorber (A) is a near infrared absorbing cationic dye represented by the following formula (1):



wherein

D^+ represents a cationic dye having an absorption in a near infrared range, and

A^- represents an anion.

20 3. The negative photosensitive composition according to claim 1, wherein the organic boron compound (B) is an ammonium salt of a quaternary boron anion represented by the following formula (2):

[Chemical Formula 1]



wherein

30 R^1 , R^2 , R^3 and R^4 each independently represents an alkyl group, an aryl group, an alkaryl group, an allyl group, an aralkyl group, an alkenyl group, an alkynyl group, an alicyclic group, or a saturated or unsaturated heterocyclic group,

35 at least one of R^1 , R^2 , R^3 and R^4 is an alkyl group having 1 to 8 carbon atoms, and

R^5 , R^6 , R^7 and R^8 each independently represents a hydrogen atom, an alkyl group, an aryl group, an allyl

group, an alkaryl group, an aralkyl group, an alkenyl group, an alkynyl group, an alicyclic group, or a saturated or unsaturated heterocyclic group.

4. The negative photosensitive composition
5 according to claim 1, wherein the onium salt (C) is obtained by combining an onium salt having S^+ in the molecule with an onium salt having I^+ in the molecule.

5. The negative photosensitive composition
10 according to claim 1, wherein the onium salt (C) has at least two onium ion atoms in a molecule.

6. The negative photosensitive composition
according to claim 5, wherein the onium ion atoms of the onium salt (C) are S^+ and I^+ .

7. The negative photosensitive composition
15 according to claim 1, wherein the onium salt (C) has an aromatic ring having a substituent.

8. The negative photosensitive composition
according to claim 1, which further contains a binder resin (E).

9. The negative photosensitive composition
20 according to claim 8, wherein the binder resin (E) is an alkali-soluble resin.

10. The negative photosensitive composition
25 according to claim 8, wherein the binder resin (E) comprises a polymer having an aromatic carboxyl group.

11. A negative photosensitive lithographic printing
plate comprising a support and a photosensitive layer
containing the negative photosensitive composition
according to any one of claims 1 to 10 formed on the
30 support.